Monarch® PAXAR



# MONARCH® PRINTER CONTROL LANGUAGEII

# **Optional Fonts Manual**

# MPGLII MPGLII

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# Chapter 1.

# Introduction

This manual applies only if you have purchased optional ROM fonts for your printer.

The fonts described in this manual were designed to be used with any MPCLII (Monarch® Printer Control Language version II) printer. Be sure you understand the information in the MPCLII Packet Reference Manual before you read this manual.

### About this Manual -

This manual provides the information you need to use any one of the available ROM sets of predefined fonts on your tags or labels. This manual includes print samples for each available font family.

For information on incorporating ROM fonts into your tag or label designs, see the *MPCLII Packet Reference Manual*. Sample formats using ROM fonts are shown in Appendix B, "Sample Formats."

If you wish to use a combination of fonts other than those described in this manual, contact your Monarch Sales Representative. Customized ROM font sets can be created to meet your needs.

### Terms to Know -

Proportional spaced fonts

All characters have different widths and

are difficult to center justify.

**ROM Fonts** 

These are stored on a ROM chip which is installed in your priner. They cannot be

erased.

Scalable (Vector) fonts

These fonts reside in the printer's RAM or in a ROM chip. Changing the point size and magnification prints a smooth font. There is no jaggedness at any point size, because the font is created from an

equation every time it is used.

# Chapter 2.

# **Using ROM Fonts**

This chapter describes

- how to use ANSI characters with ROM fonts.
- the available ROM fonts.
- ordering information for additional ROM fonts.

Optional fonts are available in one of several ROM sets. Refer to the following tables to locate the style for your chosen font.

Fonts 1-6 and 12 use the ANSI character set. Fonts 7-11 use the non-standard character sets shown in Appendix A, "Character Sets."

Point sizes are approximate. A 12-point character is 12 points wide. There are 72 points to an inch, so there would be six 12-point characters to an inch. Use these point sizes to determine which fonts will fit on your format.

The quality of your printed fonts is affected by print speed, head energy, and the quality of your stock. To maximize the quality of printing, you may wish to use a premium quality stock. Contact your Monarch Sales Representative for information about "premium" supplies. To improve the appearance of your fonts, slow down the print speed. Refer to your MPCLII Packet Reference Manaul to adjust the print speed.



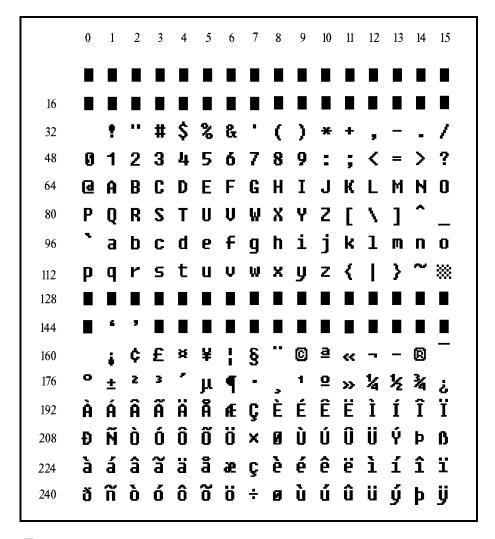
Check your bar codes when you change your print speed to ensure an in-specification bar code.

# **Using ANSI Characters-**

To use one of these characters in your format, press and hold the **Alt** key and type in the character codes for your chosen character using the numeric keypad. To determine the character code, add the column number and row number for the character. For example, to produce the ÿ character, you would press **Alt 255** (column 15 + row 240). Keep in mind that the character may appear differently on your screen than it may appear when printed, because screen fonts and printer fonts are not necessarily the same.

Refer to the chart on the following page for the available ANSI characters.

### ANSI Character Set





designates non-printing characters.

# ROM Fonts Using ANSI Characters —

The following ROM fonts use the ANSI characters in the formats.

### Rom #1: Intensive Font

The Intensive Font family is used for text intensive tags or labels. These fonts are very readable.

Font Style	Point Size	CG Times
500	10	ABC
501	12	ABC
502	14	ABC
503	16	ABC
504	18	ABC
		CG Triumvirate
505	10	ABC
506	12	ABC
507	14	ABC
508	16	ABC
509	18	ABC

# Rom #2: Compliance Label Font

The Compliance Label Font family is used on compliance labels. Compliance labels are shipping labels used exclusively for a certain retailer. The label complies with the retailer's standards.

Font Style	Point Size	CG Triumvirate
510	7	ABC
511	9	ABC
512	11	ABC
513	15	ABC
514	18	ABC
515	21	ABC
516	24	ABC
517	30	ABC

Rom #3: Headline Font #1

The Headline and Large Font families give a variety of looks to information that requires emphasis on your tags or labels.

Font Style	Point Size	Copper Black
520	12	ABC
521	14	ABC
522	18	ABC
523	24	ABC
524	28	ABC

Refer to Appendix B, "Sample Formats," for a format using the headline font.

Rom #4: Headline Font #2

Font Style	Point Size	CG Poster Bondini
530	12	ABC
531	14	ABC
532	18	ABC
533	24	ABC
534	30	ABC

Rom #5: Large Font

Font Style	Point Size	CG Times
540	24	ABC
541	30	ABC
		CG Triumvirate
542	40	ABC

# Rom #6: Script Font

The Script Font family gives tags or labels a calligraphic effect.

Font Style	Point Size	Signet Roundhand
550	10	A <b>B</b> C
551	12	ABG
552	15	AB6
553	18	AB6
554	24	ABC
555	30	AB6

### Rom #12: Scalable Font

The Scalable Font (CG Triumvirate Bold<sup>TM</sup>) family produces clear and readable fonts at point sizes from 4-90. Scalable fonts are smooth at any point size or magnification. The scalable font is a proportionally spaced font. Therefore, the field height and width varies with each letter.

The height and width magnification entered in the format packet (text or constant text field) are point sizes (4-90) instead of magnifiers (1-7).



If height and width magnification are not set to the same point size, the printed characters look tall and thin or short and thick. This allows for greater flexibility in the appearance of the font.

Refer to Appendix B, "Sample Formats," for a format using the scalable font.

Font Style	Point Size	CG Triumvirate Bold
50	6	ABC
50	10	ABC
50	24	ABC
50	48	ABC
50	72	ABC

# ROM Fonts Using Non-Standard Characters ——

The following ROM fonts use the Non-Standard Characters in the formats. Refer to Appendix A, "Character Sets" for the available foreign characters and their corresponding codes.

### Rom #7: Latin-Hebrew Font

The Latin-Hebrew Font family prints Latin-Hebrew characters.

Font Style	Point Size	CG Times
561	9	חאהדגבא
562	11	חזוהדגבא
563	15	חזוהדגבא
564	18	חזוהדגבא
565	21	חזוהדגבא
566	24	חזוהדגבא
567	30	חזוהדגבא

Rom #8: Latin-Arabic Font

The Latin-Arabic Font family prints Latin-Arabic characters.

Font Style	Point Size	CG Times
571	10	الم ٦ ٤ ٤ ٩
572	12	الم ٦ ٤ ٤ ٩
573	15	الم ٦ ٤ ٤ ٩
574	18	الم ٢ ٤ ٤ ٩
575	21	الم٢٤٦٩
576	24	الم٢٤٦٩
577	30	الم ٦٤٤٦

Rom #9: Greek Font

The Greek Font family prints Greek characters.

Font Style	Point Size	Univers
580	7	ΑΒΓΔΕΩ
581	9	ΑΒΓΔΕΩ
582	11	ΑΒΓΔΕΩ
583	15	ΑΒΓΔΕΩ
584	18	ΑΒΓΔΕΩ
585	21	ΑΒΓΔΕΩ
586	24	ΑΒΓΔΕΩ
587	30	ΑΒΓΔΕΩ

Rom #10: Cyrillic Font

The Cyrillic Font family prints Cyrillic characters.

Font Style	Point Size	Univers
590	7	АБВГДЯ
591	9	АБВГДЯ
592	11	АБВГДЯ
593	15	АБВГДЯ
594	18	АБВГДЯ
595	21	АБВГДЯ
596	24	АБВГДЯ
597	30	АБВГДЯ

Rom #11: Turkish Font

The Turkish Font family prints Turkish characters.

Font Style	Point Size	Univers
600	7	ÄÅÉæÆô
601	9	ÄÅÉæÆô
602	11	ÄÅÉæÆô
603	15	ÄÅÉæÆô
604	18	ÄÅÉæÆô
605	21	ÄÅÉæÆô
606	24	ÄÅÉæÆô
607	30	ÄÅÉæÆô

# Ordering Additional ROM Fonts -

If you would like to order any of the ROM Fonts shown earlier in this chapter, use the following part numbers.

ROM Number	Part Number				
1 (Intensive)	11497710				
2 (Compliance Label)	11497810				
3 (Headline #1)	11497910				
4 (Headline #2)	11498010				
5 (Large)	11498110				
6 (Script)	11498210				
7 (Latin-Hebrew)	11498310				
8 (Latin-Arabic)	11498410				
9 (Greek)	11498510				
10 (Cyrillic)	11498610				
11 (Turkish)	11498710				
12 (Scalable)	11745110				

## Additional Fonts -

You can download fonts to all of these printers. The MONARCH® PLATFORM™ Font Utility converts any Hewlett-Packard® or TrueType™ font into a file that can be downloaded to Monarch® MPCLII printers. Call your Monarch Representative for more information.

# Appendix A.

# **Character Sets**

This appendix includes the non-standard character sets for Arabic, Hebrew, Greek, Cyrillic, and Turkish fonts.

To use one of these characters in your format, press and hold the **Alt** key and type in the character code for your chosen character using the numeric keypad. To determine the character code, add the column number and row number for the character. For example, to produce the  $\infty$  character, you would press **Alt** 145 (column 144 + row 1). Keep in mind that the character may appear differently on your screen than it may appear when printed, because screen fonts and printer fonts are not necessarily the same.

# Using Arabic Characters-

Refer to the chart below for the available Arabic characters.

```
0
                     2
                           3
                                                                  10
                                                                        11
                                                                             12
                                                                                    13
                                                                                              15
 16
 32
                !
                                 S
                                            &
 48
           0
                1
                      2
                            3
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                                            F
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                                                             Y
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112
                q
128
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                                       1/4
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144
                                                                                          К
160
                                 \Box
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176
192
208
224
                                                              Ý
240
```

# **Using Hebrew Characters**

Refer to the chart below for the available Hebrew characters.

```
7
                                                            10
                                                                 11
                                                                      12
 16
 32
                                       &
 48
                                            G
                                                                           M
                                                                                     O
                        S
                                            W
                             T
                                  U
                                                            Z
 96
                             d
                                       f
                                  е
                                                                                     0
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112
128
144
160
176
192
208
                                                                           \Box
                                                                                n
        \aleph
224
240
        b
              \nabla
                                       צ
                                            P
                                                      ש
                                                            ע
```

# Using Greek Characters ——————

Refer to the chart below for the available Greek characters.

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
16		!		#	\$	%	&	,	,	,	*					,
32	_	•	_						(	)	•	+	,	-	•	1
48	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
64	@	Α	В	С	D	Ε	F	G	Н	ı	J	K	L	M	N	0
80	Р	Q	R	s	Т	U	V	W	X	Υ	Z	[	١	]	^	_
96	`	а	b	С	d	е	f	g	h	i	j	k	ı	m	n	o
112	p	q	r	s	t	u	v	w	x	у	z	{		}	~	₩
128			,	f	,,		t	‡		‰		4				
144		•	,	"	"	•	_	_		TM		•				
160		٠.	Ά	£	¤	¥	1	§		©	a	"	_	-	®	
176	o	±	2	3	•	μ	$\P$		Έ	Ή	1	>>	O	1/2	Ύ	Ω
192	Ϊ	Α	В	Γ	Δ	E	Z	Н	Θ	1	Κ	Λ	М	N	Ξ	0
208	П	P		Σ	T	Υ	Φ	X	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	í
224	ΰ	α	β	γ	δ	3	ζ	η	θ	ı	к	λ	μ	v	ξ	o
240	π	ρ	ς	σ	Т	U	φ	Х	Ψ	ω	ï	Ü	ó	Ú	ώ	

# **Using Cyrillic Characters**

Refer to the chart below for the available Cyrillic characters.

```
0
             1
                 2
                      3
                               5
                                    6
                                            8
                                                      10
                                                          11
                                                               12
                                                                    13
                                                                             15
 16
                               %
                                   &
            !
                          $
32
        0
                               5
                                   6
                                        7
                                                                             ?
                      3
48
                                                                             0
                               Ε
                          D
                                        G
                                            Н
                                                          Κ
                                                                    M
                                                                        Ν
                     S
            Q
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                                   ٧
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                                                      Z
96
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112
128
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144
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                                                                        ®
160
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                                                 Nº
                                                      €
                                                                        s
176
                                                          >>
                                                 Й
                                                                             П
                                   ж
                                                      К
192
            Б
                 В
                          Д
                               Ε
                                        3
                                            И
                                                          Л
                                                               M
                                                                   Н
                                                                        0
208
            С
                 Т
                     У
                          Φ
                               Х
                                        Ч
                                            Ш
                                                 Щ
                                                                    Э
                                                                        Ю
                                                                            Я
                                   Ц
                                                     Ъ
                                                          Ы
                                                               Ь
224
                                                                             п
                                   ж
                                        3
240
                                                                        ю
```

# Using Turkish Characters -

Refer to the chart below for the available Turkish characters.

```
11
                                                           12
 16
 32
                              %
                                  &
48
                 2
                     3
                              5
                                       7
            Α
                 В
                     С
                         D
                              Ε
                                  F
                                      G
                                           Н
64
                                                                 M
                                                                         0
80
            Q
                 R
                     s
                         T
                              U
                                  ٧
                                           Х
                                                   Z
96
            а
                 b
                     С
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                                  f
                                                                         o
112
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                              u
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        p
            q
128
            ü
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                                                            î
                                                                     Ä
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        Ç
                 é
                     â
                         ä
                              à
                                  å
                                               ë
                                                   è
                                               Ö
144
            æ
                Æ
                    ô
                         ö
                              ò
                                  û
                                      ù
                                                                         Ş
                             Ñ
                                  Ğ
160
                                                        1/2
                                                            1/4
176
192
208
224
240
```

# Appendix B.

# Sample Formats

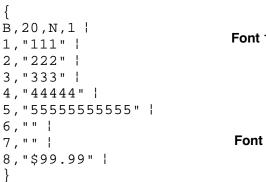
This appendix includes sample formats and their accompanying batch packets.

# Sample Standard Font Format Packet-

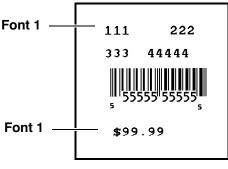
```
{
F, 20, A, R, E, 160, 160, "Fmt 20" |
T, 001, 03, V, 0115, 0008, 0, 1, 1, 1, 1, B, L, 0, 0 |
T, 002, 03, V, 0115, 0075, 0, 1, 1, 1, B, L, 0, 0 |
T, 003, 03, V, 0091, 0008, 0, 1, 1, 1, B, L, 0, 0 |
T, 004, 06, V, 0091, 0052, 0, 1, 1, 1, B, L, 0, 0 |
B, 005, 12, F, 0053, 0014, 1, 0, 0030, 1, L, 0 |
T, 006, 1, F, 0038, 0014, 0, 2, 1, 1, B, L, 0, 0 |
R, 4, 005, 1, 1, 1, 1 |
T, 007, 1, F, 0038, 0104, 0, 2, 1, 1, B, L, 0, 0 |
R, 4, 005, 12, 1, 1, 1 |
T, 008, 07, V, 0010, 0017, 0, 1, 1, 1, B, L, 0, 0 |
}

Standard Font Selector
```

### Sample Batch Packet



## Sample Tag



# Sample Headline Font Format Packet-

```
{
F,20,A,R,E,160,160,"Fmt 20";
T,001,03,V,0115,0008,0,520,1,1,B,L,0,0;
T,002,03,V,0115,0075,0,520,1,1,B,L,0,0;
T,003,03,V,0091,0008,0,520,1,1,B,L,0,0;
T,004,06,V,0091,0052,0,520,1,1,B,L,0,0;
B,005,12,F,0053,0014,1,0,0030,1,L,0;
T,006,1,F,0038,0014,0,2,1,1,B,L,0,0;
R,4,005,1,1,1,1;
T,007,1,F,0038,0104,0,2,1,1,B,L,0,0;
R,4,005,12,1,1,1;
T,008,07,V,0010,0017,0,522,1,1,B,L,0,0;
}

Headline Font Selector
```

# Sample Batch Packet { B, 20, N, 1 | 1, "111" | 2, "222" | 3, "333" | 4, "444444" | 5, "555555555555" | 6, "" | 7, "" | 8, "\$99.99" | } Font 520 111 222 333 44444 555555 55555 55555 599.99 Font 522

# Sample Scalable Font Format Packet

```
\begin{array}{c} \text{Scalable Font} \\ \text{F,2,A,R,E,200,250,"FONT50"} \\ \text{T,1,8,V,160,45,0,50,24,24,B,L,0,0,0} \\ \text{T,2,5,V,125,45,0,50,24,24,B,L,0,0,0} \\ \text{T,3,15,V,100,45,0,50,14,14,B,L,0,0,0} \\ \text{Height} \\ \text{T,3,15,V,75,45,0,50,12,12,B,L,0,0,0} \\ \text{Magnification} \\ \text{B,5,12,F,10,45,1,2,40,1,L,0} \\ \text{Width} \\ \text{Magnification} \end{array}
```

### Sample Batch Packet Sample Tag B, 2, N, 1 | Font 50 1, "MERRY" | MERRY (24 pt.) 2, "MART" | **MART** 3,"LG Winter Coat" | 4,"\$189.95" | **LG Winter Coat** 5, "345911871209" | Font 50 \$189.95 (12 pt.)

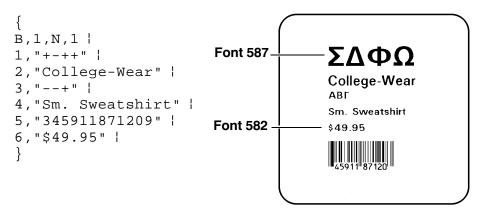
# Sample Greek Font Format Packet

```
{
F,1,A,R,E,200,250,"Greek" |
T,1,18,V,165,45,0,587,1,1,B,L,0,0,0 |
T,2,18,V,135,45,0,583,1,1,B,L,0,0,0 |
T,3,18,V,115,45,0,582,1,1,B,L,0,0,0 |
T,4,18,V,90,45,0,582,1,1,B,L,0,0,0 |
B,5,12,F,10,45,1,0,40,1,L,0 |
T,6,8,V,65,45,0,582,1,1,B,L,0,0,0 |
}

Greek Font
Selector
```

### Sample Batch Packet

## Sample Tag



For supplies, service, or assistance call:

# **TOLL FREE:**

1-800-543-6650 (In the U.S.A.)

1-800-263-4650 (In Canada)

# **INTERNET ADDRESS:**

www.monarch.com